

TUNGSTEN POWDER METALLURGY PRODUCTS

Number PD-7015 Issue 0-25.04.2005

PURE TUNGSTEN WF-3 Foil 4201

Description of Product

This specification covers rolled tungsten foil, from 0.002 through 0.0049 thick, produced from pressed and sintered powder metallurgy sheet bar.

Chemical Characteristics¹⁾

(Mass fraction in % [cg/g]; ppm [µg/g])

The chemical composition of the tungsten powder used in producing the sheet bar shall conform to the following limits:

Tungsten (By Difference)	min.	99.95	%
Al	max.	0.002	%
Cr	max.	0.002	%
Cu	max.	0.002	%
Mg	max.	0.002	%
Mn	max.	0.002	%
Pb	max.	0.002	%
Si	max.	0.002	%
Sn	max.	0.002	%
Ti	max.	0.002	%
Ca	max.	0.003	%
Fe	max.	0.003	%
Ni	max.	0.003	%
C	max.	0.005	%

Structure

Foil is supplied in the as-rolled condition. Stress-relieved material can be supplied upon request.



WF-3

¹⁾ Information on testing methods on request.



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Physical Characterstics

Thickness Tolerance:

Thickness (Inches)	Available Tolerance	Width (Inches)
0.002	± 0.0003	250 to 6
0.003	± 0.0004	250 to 12
0.004	± 0.0005	250 to 12
0.0049	± 0.0007	250 to 12

Tolerance for intermediate thickness will correspond to next heavier thickness shown.

Width Tolerance:

	SLIT WIDTH (INCHES)		SHEARED WIDTH (INCHES)
THICKNESS (INCHES)	OVER .500 THRU 6 INCHES WIDE	OVER 6 THRU 12 INCHES WIDE	OVER .500 THRU 12 INCHES WIDE
0.002 to 0.049	± .010	± .015	± .031

Length Tolerance For specific lengths, tolerance is + .0625 - 0 inch per foot of length.

Tungsten foil is supplied in a coil having a minimum internal diameter of 3 inches,

with a minimum coil length of 10 feet.

Surface Condition Foil will have a bright finish and will be essentially free of surface defects or edge

delaminations as determined by visual examination. Special mirror finish material

is available upon request.

Hazards identification in Advertising (Directive 67/548/EEC Article 26, Directive 1999/45/EC Article 13

and REGULATION (EC) No 1272/2008 Article 48)

none.

Identification The material will be identified with appropriate specification number, ingot or lot

number, and nominal size. Shipping containers will be marked with the name of

the customer and the purchase order number.

Rejection H.C. Starck must receive written notification of rejected material with the resaon

for rejection. The right is reserved to inspect rejected material at customer plant for claim validation. The material may be returned only after proper authorization.

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